

Product datasheet for RC236491

DOK5 (NM_177959) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DOK5 (NM_177959) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DOK5
Synonyms: C20orf180; IRS-6; IRS6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236491 representing NM_177959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGTGTGTAGGAACACGGATCAATGACATCAGCCTTGGAGAGCCTGACTTACTGGCCACTGGGGTTG
 AGAGAGAACAGAGTGAGAGATTCATGTGTATTTGATGCCATCTCCTAACTTAGATGTACATGGCGAATG
 TGCCTTGAGATTACATATGAGTATATCTGTCTTTGGGACGTCCAGAATCCAGAGTCAAACCTCATCTCT
 TGGCCCGTAAGCGCCCTGCGGCGGTATGGACGTGATACTACGTGGTTCACTTTTGAGGCAGGAGGATGT
 GTGAGACTGGTGAAGGGCTGTTTATCTTTCAGACCCGAGACGGGGAGGCCATCTATCAGAAAAGTCCACTC
 TGCTGCCTTGGCCATAGCCGAGCAGCAGAGCGCTTGCTACAGAGTGTGAAAACTCGATGCTCCAGATG
 AAGATGAGTGAGCGGGCCGCTCGCTGAGCACCATGGTGGCCCTGCCTCGCAGCGCCTACTGGCAGCACA
 TCACACGGCAGCACAGCAGGGACAGCTCTACCGCTTGAAGATGTTCCAGCCCTCTGAAGCTTCATCG
 AACAGAGACTTTTCCAGCCTACAGATCTGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236491 representing NM_177959
 Red=Cloning site Green=Tags(s)

MECVGTRINDISLGPDLLATGVEREQSERFNVYLMPSNLDVHGECALQITYEYICLWDVQNPVVKLIS
 WPLSALRRYGRDFTWFTEAGRMCTEGELFIFQTRDGEAIYQKVHSAALIAEQHERLLQSVKNSMLQM
 KMSERAASLSTMVPLPRSAWQHITRQHSTGQLYRLQDVSSPLKLHRTETFPAYRSEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

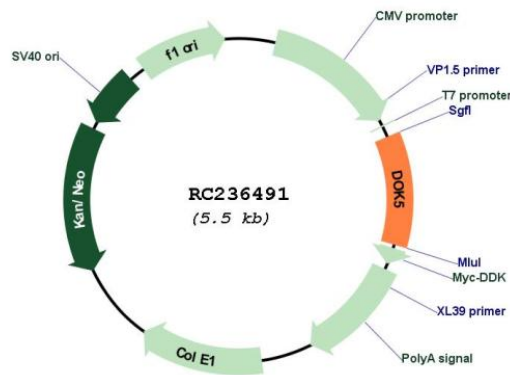


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_177959

ORF Size: 594 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_177959.3](#)

RefSeq Size: 1734 bp

RefSeq ORF: 597 bp

Locus ID: 55816

UniProt ID: [Q9P104](#)

Cytogenetics: 20q13.2

Protein Families: Druggable Genome

MW: 23.3 kDa

Gene Summary: The protein encoded by this gene is a member of the DOK family of membrane proteins, which are adapter proteins involved in signal transduction. The encoded protein interacts with phosphorylated receptor tyrosine kinases to mediate neurite outgrowth and activation of the MAP kinase pathway. Unlike other DOK family proteins, this protein does not interact with RASGAP. This protein is up-regulated in patients with systemic sclerosis and is associated with fibrosis induced by insulin-like growth factor binding protein 5. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jun 2014]